



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: US/10/723,365  
Source: TFWB  
Date Processed by STIC: 12/15/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



II

## RAW SEQUENCE LISTING

DATE: 12/15/2003

PATENT APPLICATION: US/10/723,365

TIME: 16:39:16

Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\12112003\J723365.raw

4 <110> APPLICANT: van den Boom, Dirk  
 5 B"cker, Sebastian  
 7 <120> TITLE OF INVENTION: FRAGMENTATION-BASED METHODS AND SYSTEMS  
 8 FOR SEQUENCE VARIATION DETECTION AND DISCOVERY  
 11 <130> FILE REFERENCE: 24736-2073  
 > 13 <140> CURRENT APPLICATION NUMBER: US/10/723,365  
 14 <141> CURRENT FILING DATE: 2003-11-26  
 16 <150> PRIOR APPLICATION NUMBER: US 60/429,895  
 17 <151> PRIOR FILING DATE: 2002-11-27  
 19 <160> NUMBER OF SEQ ID NOS: 85  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 7  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: Renin cleavage site  
 31 <400> SEQUENCE: 1  
 32 Pro Phe His Leu Leu Val Tyr  
 33 1 5  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 5  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Artificial Sequence  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: Factor Xa cleavage site  
 > 44 <221> NAME/KEY: VARIANT  
 45 <222> LOCATION: 5  
 46 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg  
 > 48 <400> 2  
 > 49 Ile Glu Gly Arg Xaa  
 50 1 5  
 53 <210> SEQ ID NO: 3  
 54 <211> LENGTH: 5  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Artificial Sequence  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: Factor Xa cleavage site  
 > 61 <221> NAME/KEY: VARIANT  
 62 <222> LOCATION: 5  
 63 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg  
 > 65 <400> 3  
 > 66 Ile Asp Gly Arg Xaa

Does Not Comply  
 Corrected Diskette Needed  
 (P. 4-5)

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Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\12112003\J723365.raw

```

67 1 5
70 <210> SEQ ID NO: 4
71 <211> LENGTH: 5
72 <212> TYPE: PRT
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Factor Xa cleavage site
> 78 <221> NAME/KEY: VARIANT
79 <222> LOCATION: 5
80 <223> OTHER INFORMATION: Xaa = Any Amino Acid Except Pro or Arg
> 82 <400> 4
> 83 Ala Glu Gly Arg Xaa
84 1 5
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 5
89 <212> TYPE: PRT
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Collagenase cleavage site
> 95 <221> NAME/KEY: VARIANT
96 <222> LOCATION: 2, 5
97 <223> OTHER INFORMATION: Xaa = Any Amino Acid
> 99 <400> 5
> 100 Pro Xaa Gly Pro Xaa
101 1 5
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 49
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Forward primer for base-specific cleavage
112 <400> SEQUENCE: 6
113 cagtaatacgc actcactata gggagaaggc tccccagcaa gacggactt 49
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 28
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Reverse primer for base-specific cleavage
123 <400> SEQUENCE: 7
124 aggaagagag cgcctcggca aagtacac 28
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 340
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Amplicon for base-specific cleavage
134 <400> SEQUENCE: 8
135 gggagaaggc tccccagcaa gacggacttc ttcaaaaaca tcatgaactt catagacatt 60

```

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Input Set : A:\pto.ln.txt

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```

136 gtggccatca ttccttattt catcacgctg ggcaccgaga tagctgagca ggaaggaaac 120
137 cagaagggcg agcaggccac ctccctggcc atcctcaggg tcatccgctt ggtaaggggt 180
138 tttagaatct tcaagctctc ccgccactct aagggcctcc agatcctggg ccagaccctc 240
139 aaagctagta tgagagagct agggctgctc atctttttcc tcttcacggt ggtcatcctg 300
140 ttttctagtg cagtgtactt tgccgaggcg ctctcttctt 340
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 23
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Forward primer for partial cleavage
> 150 <221> NAME/KEY: modified_base
151 <222> LOCATION: 1
152 <223> OTHER INFORMATION: Biotinylated
> 154 <400> 9
155 cccagtcacg acgttgtaaa acg 23
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 23
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Reverse primer for partial cleavage
165 <400> SEQUENCE: 10
166 agcggataac aatttcacac agg 23
168 <210> SEQ ID NO: 11
169 <211> LENGTH: 117
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Amplicon for partial cleavage
176 <400> SEQUENCE: 11
177 cccagtcacg acgttgtaaa acgtccaggg aggactcacc atgggcattt gattgcagag 60
178 cagctccgag tccatccaga gcttcctgca gtcacctgtg tgaaattggt atccgct 117
180 <210> SEQ ID NO: 12
181 <211> LENGTH: 21
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Reference sequence
> 188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: 11
190 <223> OTHER INFORMATION: n = C or A
> 192 <221> misc_feature
193 <222> LOCATION: 1, 2, 3, 8, 9, 10, 12, 13, 14, 19, 20, 21
194 <223> OTHER INFORMATION: n = A,T,C or G
> 196 <400> 12
> 197 nnnactgnnn nnnntgacnn n 21
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 583

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Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\12112003\J723365.raw

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201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: CETP Amplicon
207 <400> SEQUENCE: 13
208 cttcagtgtc cacaccgacc ctatgagtgg ggcggtcaaa ctgtcccat tttacacaca 60
209 gggaaactta gtgaatggca aggctgggtt tgagccagc tctattgcc ccaaagataa 120
210 ggetccattc cctgctccat ttcccaggca tagggacttg taggggctg gaacccagg 180
211 atcaactctg ggctcagagg gccccagcaa taagtgactg ttgattactc ctgatcccaa 240
212 agctgacttc aggcaagctc cttggaggtc gcagcccctt cttgctatgc ccagtggcaa 300
213 tgatgttcat aatcccactc ctcatgagc ggttccacta agaaccatg atctcctacc 360
214 tcaaattggac ctcatgcttt ctgagtaagc ctccctcagc tttctggtca cctcactccc 420
215 cccaccact gcaatgactt cttcaggcct tccctgccat cctcaaatct ccagtggccc 480
216 cctcctgtct acctccact tccctctcca cacacaacct gcttaccaga gagctgagca 540
217 gagccaccaa cagaacttcc cccccacgtc gctgtctcca gtc 583
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 483
221 <212> TYPE: DNA
222 <213> ORGANISM: Mycobacterium abscessus
224 <300> PUBLICATION INFORMATION:
225 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536038
> 227 <300> PUBLICATION INFORMATION: 14
228 acgggtgagt aacacgtggg tgatctgccc tgcactctgg gataagcctg ggaaactggg 60
229 tctaataaccg gataggacca cacacttcat ggtgagtggg gcaaagcttt tgcggtgtgg 120
230 gatgagcccg cggcctatca gcttgttggg ggggtaatgg cccaccaagg cgacgacggg 180
231 tagccggcct gagagggtga ccggccacac tgggactgag atacggccca gactcctacg 240
232 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
233 agggatgacg gccttcgggt tgtaaacctc tttcagtagg gacgaagcga aagtgcgggt 360
234 acctacagaa gaaggaccgg ccaactacgt gccagcagcc gcggtatac gtagggtccg 420
235 agcgttgtcc ggaattactg ggcgtaaaga gctcgtaggt ggtttgtcgc gttgttcgtg 480
236 aaa 483
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 495
240 <212> TYPE: DNA
241 <213> ORGANISM: Mycobacterium avium
243 <300> PUBLICATION INFORMATION:
244 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536037
> 246 <300> PUBLICATION INFORMATION: 15
247 acgggtgagt aacacgtggg caatctgccc tgcacttcgg gataagcctg ggaaactggg 60
248 tctaataaccg gataggacct caagacgcat gtcttctggg ggaaagcttt tgcggtgtgg 120
249 gatgggcccg cggcctatca gcttgttggg ggggtgacgg cctaccaagg cgacgacggg 180
250 tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240
251 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300
252 ggggatgacg gccttcgggt tgtaaacctc tttcaccatc gacgaaggtc cgggttttct 360
253 cggattgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420
254 acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480
255 gcgttgttcg tgaaa 495
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 495

```

Mandatory response when there is a response for L3087, then L3097 must be added with a response.

Mandatory, when there is a response for L3087, then L3097 must be added with a response.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/723,365

DATE: 12/15/2003

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Input Set : A:\pto.ln.txt

Output Set : N:\CRF4\12112003\J723365.raw

259 <212> TYPE: DNA

260 <213> ORGANISM: Mycobacterium celatum

262 <300> PUBLICATION INFORMATION:

263 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536040

> 265 <300> PUBLICATION INFORMATION: 16

266 acgggtgagt aacacgtggg tgatctgccc tgcacttcgg gataagcttg ggaaactggg 60

267 tctaataaccg gataggacca tgggatgcat gtcttggttg ggaaagcttt tgcggtgtgg 120

268 gatgggcccg cggcctatca gcttggttggt ggggtgatgg cctaccaagg cgacgacggg 180

269 tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240

270 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300

271 ggggatgacg gccttcgggt tgtaaacctc ttccaccatc gacgaagctg ccggttttcc 360

272 ggtggtgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420

273 acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480

274 gcgttggtcg tgaaa 495

276 <210> SEQ ID NO: 17

277 <211> LENGTH: 483

278 <212> TYPE: DNA

279 <213> ORGANISM: Mycobacterium fortuitum

281 <300> PUBLICATION INFORMATION:

282 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536039

> 284 <300> PUBLICATION INFORMATION: 17

285 acgggtgagt aacacgtggg tgatctgccc tgcacttttg gataagcctg ggaaactggg 60

286 tctaataaccg aatatgacca cgcgcttcat ggtgtgtggt ggaaagcttt tgcggtgtgg 120

287 gatgggcccg cggcctatca gcttggttggt ggggtaatgg cctaccaagg cgacgacggg 180

288 tagccggcct gagagggtga ccggccacac tgggactgag atacggccca gactcctacg 240

289 ggaggcagca gtggggaata ttgcacaatg ggcgcaagcc tgatgcagcg acgccgcgtg 300

290 agggatgacg gccttcgggt tgtaaacctc ttccaatagg gacgaagcgc aagtgcgggt 360

291 acctatagaa gaaggaccgg ccaactacgt gccagcagcc gcggtaatat gtagggtccg 420

292 agcgttgctc ggaattactg ggcgtaaaga gctcgtaggt ggtttgcgc gttgttcgtg 480

293 aaa 483

295 <210> SEQ ID NO: 18

296 <211> LENGTH: 495

297 <212> TYPE: DNA

298 <213> ORGANISM: Mycobacterium gordonae

300 <300> PUBLICATION INFORMATION:

301 <308> DATABASE ACCESSION NO: EMBL Accession No. AJ536042

> 303 <300> PUBLICATION INFORMATION: 18

304 acgggtgagt aacacgtggg taatctgccc tgcacatcgg gataagcctg ggaaactggg 60

305 tctaataaccg aataggacca caggacacat gtcctgtggt ggaaagcttt tgcggtgtgg 120

306 gatgggcccg cggcctatca gcttggttggt ggggtgatgg cctaccaagg cgacgacggg 180

307 tagccggcct gagagggtgt ccggccacac tgggactgag atacggccca gactcctacg 240

308 ggaggcagca gtggggaata ttgcacaatg ggcgaaagcc tgatgcagcg acgccgcgtg 300

309 ggggatgacg gccttcgggt tgtaaacctc ttccaccatc gacgaaggct ccggttttct 360

310 cgggctgacg gtaggtggag aagaagcacc ggccaactac gtgccagcag ccgcggtaat 420

311 acgtagggtg cgagcgttgt ccggaattac tgggcgtaaa gagctcgtag gtggtttgtc 480

312 gcgttggtcg tgaaa 495

314 <210> SEQ ID NO: 19

315 <211> LENGTH: 495

316 <212> TYPE: DNA

Same error

Same error

Same error

RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/723,365

DATE: 12/15/2003  
 TIME: 16:39:17

Input Set : A:\pto.ln.txt  
 Output Set: N:\CRF4\12112003\J723365.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the  
 uence Listing to ensure that a corresponding explanation is presented in the <220>  
 <223> fields of each sequence which presents at least one n or Xaa.

#:2; Xaa Pos. 5 ✓  
 #:3; Xaa Pos. 5 ✓  
 #:4; Xaa Pos. 5 ✓  
 #:5; Xaa Pos. 2,5 ✓  
 #:12; N Pos. 1,2,3,8,9,10,11,12,13,14,19,20,21 ✓  
 #:32; N Pos. 821 ✓  
 #:45; N Pos. 123 ✓  
 #:46; N Pos. 174,179,317 ✓  
 #:47; N Pos. 285,286 ✓  
 #:48; N Pos. 131 ✓  
 #:49; N Pos. 47,50,51,52,111,135,185,198,253,359 ✓  
 #:50; N Pos. 131 ✓  
 #:51; N Pos. 228,230,235,236,240,243,245 ✓  
 #:52; N Pos. 84,265,269 ✓  
 #:53; N Pos. 136,385 ✓  
 #:54; N Pos. 76 ✓  
 #:55; N Pos. 157 ✓  
 #:56; N Pos. 103 ✓  
 #:57; N Pos. 31 ✓  
 #:58; N Pos. 211 ✓  
 #:59; N Pos. 77 ✓  
 #:60; N Pos. 131,239,254,283 ✓  
 #:61; N Pos. 100 ✓  
 #:62; N Pos. 228,341 ✓  
 #:63; N Pos. 300,696,741,771 ✓  
 #:64; N Pos. 378 ✓  
 #:65; N Pos. 137 ✓  
 #:66; N Pos. 249 ✓  
 #:67; N Pos. 80,206,295,315,317,318,373,400,479 ✓  
 #:68; N Pos. 48,154 ✓  
 #:69; N Pos. 205,277,304 ✓  
 #:70; N Pos. 117 ✓  
 #:71; N Pos. 37,329,350 ✓  
 #:72; N Pos. 653 ✓  
 #:73; N Pos. 257 ✓  
 #:74; N Pos. 98,114 ✓  
 #:75; N Pos. 21,61,83,84,85,86 ✓  
 #:78; N Pos. 183,256,284,327 ✓  
 #:79; N Pos. 279 ✓  
 #:80; N Pos. 44 ✓  
 #:81; N Pos. 346 ✓  
 #:82; N Pos. 291 ✓  
 #:83; N Pos. 260 ✓  
 #:84; N Pos. 257 ✓

**VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/723,365**

DATE: 12/15/2003

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Input Set : **A:\pto.ln.txt**Output Set: **N:\CRF4\12112003\J723365.raw**

3 M:270 C: Current Application Number differs, Replaced Current Application Number  
 4 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 8 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
 9 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
 1 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 5 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
 6 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
 8 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 2 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
 3 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
 5 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 9 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
 00 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
 50 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 54 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
 88 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 92 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
 96 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
 97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
 27 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:14  
 46 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:15  
 65 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:16  
 84 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:17  
 03 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:18  
 22 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:19  
 41 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:20  
 60 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:21  
 79 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:22  
 98 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:23  
 17 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:24  
 36 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:25  
 03 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:29  
 70 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:32  
 84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:780  
 61 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:45  
 68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:120  
 83 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 87 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:46  
 91 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:46  
 94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:120  
 41 Repeated in SeqNo=46  
 09 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 13 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47  
 18 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:240  
 31 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48  
 38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:120



**VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/723,365**

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Input Set : **A:\pto.ln.txt**Output Set: **N:\CRF4\12112003\J723365.raw**

53 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 57 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
 61 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
 65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
 69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
 70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
 41 Repeated in SeqNo=49  
 88 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 92 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50  
 95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120  
 10 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 14 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:51  
 18 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:180  
 41 Repeated in SeqNo=51  
 31 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52  
 39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52  
 41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60  
 41 Repeated in SeqNo=52  
 57 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 61 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53  
 65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53  
 68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:120  
 41 Repeated in SeqNo=53  
 83 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 87 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54  
 89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:60  
 005 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 009 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55  
 012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120  
 026 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 030 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56  
 032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:60  
 049 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 053 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:57  
 054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
 070 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 074 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58  
 078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:180  
 091 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 095 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59  
 097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:60  
 112 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60  
 120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60  
 124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60  
 128 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60  
 131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:120  
 41 Repeated in SeqNo=60

## VERIFICATION SUMMARY

DATE: 12/15/2003

PATENT APPLICATION: US/10/723,365

TIME: 16:39:17

Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\12112003\J723365.raw

145 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
149 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61  
151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:60  
166 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
170 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62  
174 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62  
178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:180  
41 Repeated in SeqNo=62  
192 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
196 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63  
200 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63  
204 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:63  
209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:240  
41 Repeated in SeqNo=63  
228 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:64  
239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:360  
251 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:65  
258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:120  
272 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
276 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66  
281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:240  
292 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
296 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
300 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:67  
302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:60  
41 Repeated in SeqNo=67  
320 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
324 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
328 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
41 Repeated in SeqNo=68  
345 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
349 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:69  
353 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:69  
357 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:69  
361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180  
41 Repeated in SeqNo=69  
374 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:70  
380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:60  
395 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
399 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:71  
408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0  
41 Repeated in SeqNo=71  
424 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:600  
450 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

**VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/723,365**

DATE: 12/15/2003

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Input Set : **A:\pto.ln.txt**Output Set: **N:\CRF4\12112003\J723365.raw**

459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240  
476 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:60  
501 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0  
41 Repeated in SeqNo=75  
563 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
583 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
604 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
625 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
646 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
667 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
688 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!